

IN THE CLAIMS:

Please Amend the following claims:

1 9. (Twice Amended) A process for controlling the pressure within a chamber, comprising
2 the steps of:

3 first generating a pressure sensor signal responsive to the pressure in said chamber;

4 second generating a step command signal responsive to said pressure sensor signal
5 and a tool logic signal, said step command signal generating comprising applying a pressure
6 control algorithm to said pressure sensor and tool logic signals;

7 third generating a direction/speed command signal responsive to said step command
8 signal and a valve position feedback signal, said valve position feedback signal comprising
9 data representing the position of a motor drive operatively connected to a valve, said
10 direction/speed command signal generating comprising applying a position control algorithm
11 to said step command and valve position feedback signals;

12 actuating [a]said valve responsive to said direction/speed command signal, said
13 actuating comprising moving said valve by operation of said motor drive, said actuating
14 resulting in said valve residing in a position, said valve in fluid communication with said
15 chamber;

16 { fourth generating another said valve position [error] feedback signal responsive to
17 said position of said valve, said valve position feedback signal comprising data representing
18 the position of said motor drive operatively connected to said valve; and } "inserts" step?

19 repeating said third generating, said actuating and said fourth generating steps until
20 said pressure in controlled adequately [direction/speed command signal generating step, said
21 actuating step and said valve position error generating step substituting said valve position
22 error feedback signal for said valve position feedback signal].

1 14. (Twice Amended) A process for controlling the fluid flow through a conduit, comprising the
2 steps of:

3 generating a flow sensor signal responsive to the flow in said conduit;

4 generating a step command signal responsive to said flow sensor signal and a tool logic
5 signal, said step command signal generating comprising applying a [pressure]flow control algorithm
6 to said [pressure]flow sensor and tool logic signals;

7 generating a direction/speed command signal responsive to said step command signal and a
8 valve position feedback signal, said valve position feedback signal comprising data representing
9 the position of a motor drive operatively connected to a valve, said direction/speed command
10 signal generating comprising applying a position control algorithm to said step command and valve
11 position feedback signals;

12 actuating [a]said valve responsive to said direction/speed command signal, said actuating
13 comprising moving said valve by operation of said motor drive, said actuating resulting in said
14 valve residing in a valve position, said valve in fluid communication with said conduit;

15 generating another said valve position [error]feedback signal responsive to said position of
16 said valve, said valve position feedback signal comprising data representing the position of said
17 motor drive operatively connected to said valve; and J "welen" step?

18 repeating said direction/speed command signal generating step, said actuating step and said
19 valve position [error]feedback signal generating step until said fluid flow is controlled adequately.[
20 substituting said valve position error feedback signal for said valve position feedback signal]